

#5

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/526,905  
Source: PCT  
Date Processed by STIC: 3-22-05

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 03/22/2005

PATENT APPLICATION: US/10/526,905

TIME: 17:09:57

Input Set : A:\Pto.kd.txt

Output Set: N:\CRF4\03222005\J526905.raw

```

3 <110> APPLICANT: Garvan Institute of Medical Research
4   Clancy, Jennifer
5   O'Brien, Phillipa
6   Saunders, Darren
7   Henderson, Michelle
8   Watts, Colin
9   Sutherland, Robert
10  Henshall, Susan
12 <120> TITLE OF INVENTION: Novel diagnostic and therapeutic methods and reagents
therefor
14 <130> FILE REFERENCE: 500595/MRO
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/526,905
C--> 16 <141> CURRENT FILING DATE: 2005-03-07
16 <160> NUMBER OF SEQ ID NOS: 53
18 <170> SOFTWARE: PatentIn version 3.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 8509
22 <212> TYPE: DNA
23 <213> ORGANISM: human Edd
25 <400> SEQUENCE: 1
26 cgccctcgag tggaggacga gaaggaaagc accatgacgt ccatccattt cgtgggttcac      60
28 ccgctgccgg gcaccgagga ccagctcaat gacagggttac gagaagtttc tgagaagctg      120
30 aacaaatata atttaaacag ccacccccct ttgaatgtat tggaacaggc tactattaaa      180
32 cagtgtgtgg tgggacaaa tcatgctgcc tttcttcttg aggatggtag agtttgcagg      240
34 attggttttt cagtacagcc agacagattg gaattgggta aacctgataa taatgatggg      300
36 tcaaagttga acagcaactc gggggcaggg aggacgtcaa ggctggtag gacaagcgac      360
38 tctccatggt ttctctcagg ttctgagact ctaggcaggc tggcaggcaa caccttagga      420
40 agccgctgga gttctggagt ggggtggaagt ggtggaggat cctctggtag gtcacagct      480
42 ggagctcgag attcccgcgc gcagactcga gttattcgga caggacggga tcgaggggtct      540
44 gggcttttgg gcagtcagcc ccagccagtt attccagcat ctgtcattcc agaggagctg      600
46 atttcacagg cccaagttgt tttacaaggc aaatccagaa gtgtcattat tcgagaactt      660
48 cagagaacaa atcttgatgt gaaccttgct gtaaataatt tacttagccg ggatgatgaa      720
50 gatggagatg atggggatga tacagccagc gaattcttatt tgccctggaga ggatcttatg      780
52 tctctccttg atgccgacat tcattctgcc cacccaagtg tcattattga tgcagatgcc      840
54 atgttttctg aagacattag ctattttggt tacccttctt ttcgtcgttc atcaacttcc      900
56 aggctaggct catctcgagt tctccttctt cccttagaga gagactctga gctgttgctg      960
58 gaacgtgaat ccgttttacg tttacgtgaa cgaaggtggc ttgatggagc ctcatattgat      1020
60 aatgaaaggg gttctaccag caaggaagga gagccaaact tggataagaa gaatacacct      1080
62 gttcaaagtc cagtatctct aggagaagat ttgcagtggg ggctgataa ggatggaaca      1140
64 aaattcatct gtattggggc tctgtattct gaacttctgg ctgtcagcag taaaggagaa      1200
66 ctttatcagt ggaaatggag tgaatctgag ccttacagaa atgccagaa tccttcatta      1260
68 catcatccac gagcaacatt tttggggtta accaatgaaa agatagtcct cctgtctgca      1320
70 aatagcataa gagcaactgt agctacagaa aataacaagg ttgctacatg ggtggatgaa      1380
72 actttaagtt ctgtggcttc taaattagag cacactgctc agacttactc tgaacttcaa      1440

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/526,905

DATE: 03/22/2005

TIME: 17:09:57

Input Set : A:\Pto.kd.txt

Output Set : N:\CRF4\03222005\J526905.raw

```

74 ggagagcgga tagtttcttt acattgctgt gccctttaca cctgcgctca gctggaaaac 1500
76 agtttatatt ggtggggtgt agttcctttt agtcaaagga agaaaatgtt agagaaagct 1560
78 agagcaaaaa ataaaaagcc taaatccagt gctgggtattt cttcaatgcc gaacatcact 1620
80 gttggtaccc aggtatgctt gagaaataat cctctttatc atgctggagc agttgcattt 1680
82 tcaattagtgt ctgggattcc taaagttggt gtcttaatgg agtcagtttg gaatatgaat 1740
84 gacagctgta gatttcaact tagatctcct gaaagcttga aaaacatgga aaaagctagc 1800
86 aaaactactg aagctaagcc tgaaagtaag caggagccag tgaaaacaga aatgggtcct 1860
88 ccaccatctc cagcatccac gtgtagtgtat gcctcctcaa ttgccagcag tgcataatg 1920
90 ccatacaaac gacgacggtc aacccctgca ccaaaagaag aggaaaaggt gaatgaagag 1980
92 cagtggctctc ttcggaagt ggtttttgtg gaagatgtca agaattgtcc tgttggcaag 2040
94 gtgctaaaag tagatggtgc ctatgttgct gtaaaatttc caggaacctc cagtaatact 2100
96 aactgtcaga acagctctgg tccagatgct gaccttctt ctctcctgca ggattgtagg 2160
98 ttacttagaa ttgatgaatt gcaggttgct aaaactggtg gaacaccgaa ggttcccgac 2220
100 tgtttccaaa ggactcctaa aaagctttgt atacctgaaa aaacagaaat attagcagtg 2280
102 aatgtagatt ccaaaggtgt tcatgctgtt ctgaagactg gaaattgggt gcgatactgt 2340
104 atctttgatc ttgctacagg aaaagcagaa caggaaaata attttcctac aagcagcatt 2400
106 gctttccttg gtcagaatga gaggaatgta gccattttca ctgctggaca ggaatctccc 2460
108 attattcttc gagatggaaa tgggtaccatc tacccaatgg ccaaagattg catgggagga 2520
110 ataagggatc ccgattggct ggatcttcca cctattagta gtcttggaaat ggggtgtgcat 2580
112 tctttaataa atcttctctgc caattcaaca atcaaaaaga aagctgctgt tatcatcatg 2640
114 gctgtagaga aacaaacctt aatgaacac attctgcgct gtgactatga ggctgtcga 2700
116 caatatctaa tgaatcttga gcaagcggtt gttttagagc agaattctaca gatctgcag 2760
118 acattcatca gccacagatg tgatggaaat cgaaatattt tgcagtcttg tgtatcagtt 2820
120 tgctttccaa ccagcaataa agaaactaaa gaagaagagg aagcggagcg ttctgaaaga 2880
122 aatacatctg cagaaaggct ttctgctgtt gaggccattg caaatgcaat atcagttggt 2940
124 tcaagtaatg gcccaggtaa tggggtgga tcatcaagta gccgaagttt gagattacgg 3000
126 gaaatgatga gacgttcgtt gagagcagct ggtttgggtg gacatgaagc tggagcttca 3060
128 tccagtgaac accaggatcc agtttcaccc cccatagctc cccctagttg ggttctctgac 3120
130 cctcctgcca tggatcctga tgggtgacatt gattttatcc tggccccgcg tgtgggatct 3180
132 cttaccacag cagcaaccgg tactggtcaa ggaccaagca cctccactat tccaggtcct 3240
134 tccacagagc catctgtagt agaattcaag gatcgaaagg cgaatgctca ttttatattg 3300
136 aaattgttat gtgacagtgt ggttctccag ccctatctac gagaacttct ttctgccaaag 3360
138 gatgcaagag ggatgacccc atttatgtca gctgtaagtgt gccgagctta tctgctgca 3420
140 attaccatct tagaaactgc tcagaaaatt gcaaaagctg aaatatcttc aagtgaaaaa 3480
142 gaggaagatg tattcatggg aatggtttgc ccatcaggtg ccaacctga tgactctcct 3540
144 ttatatgttt tatgttgtaa tgacacttgc agttttacat ggactggagc agagcacatt 3600
146 aaccaggata tttttgagtg tcgaacttgt ggttgcctgg agtcactgtg ttgttgtacg 3660
148 gaattgtcaa gggtttgc taaaggtcat gattgcaaac tcaaaccggac atcaccaaca 3720
150 gcctactgtg attggtggga gaaatgtaaa tgtaaaactc ttattgctgg acagaaatct 3780
152 gctcgtcttg atctacttta tcgcctgctc actgctacta atctggttac tctgccaaac 3840
154 agcaggggag agcacctctt actattctta gtacagacag tcgcaaggca gacggtggag 3900
156 cattgtcaat acaggccacc tcgaatcagg gaagatcgta accgaaaaac agccagtcct 3960
158 gaagattcag atatgccaga tcatgattta gagcctccaa gatttgccca gcttgcatg 4020
160 gagcgtgttc tacaggactg gaatgccttg aaatctatga ttatgtttgg gtcgcaggag 4080
162 aataaagacc ctcttagtgc cagcagtaga ataggccatc ttttgccaga agagcaagta 4140
164 tacctcaatc agcaaagtgg cacaattcgg ctggactgtt tcaactattg ccttatagtt 4200
166 aagtgtacag cagatatttt gcttttagat actctactag gtacactagt gaaagaactc 4260
168 caaaacaaat atacacctgg acgtagagaa gaagctattg ctgtgacaat gaggtttcta 4320
170 cgttcagtggt caagagtttt tgttattctg agtgtggaaa tggcttcac caaaaagaaa 4380

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/526,905

DATE: 03/22/2005

TIME: 17:09:57

Input Set : A:\Pto.kd.txt

Output Set: N:\CRF4\03222005\J526905.raw

|     |            |            |             |             |            |            |      |
|-----|------------|------------|-------------|-------------|------------|------------|------|
| 172 | aacaacttta | ttccacagcc | aattggaaaa  | tgcaagcgtg  | tattccaagc | attgctacct | 4440 |
| 174 | tacgctgtgg | aagaattgtg | caacgtagca  | gagtcactga  | ttgttcctgt | cagaatgggg | 4500 |
| 176 | attgctcgtc | caactgcacc | atttaccctg  | gctagtacta  | gcatagatgc | catgcagggc | 4560 |
| 178 | agtgaagaat | tattttcagt | ggaaccacta  | ccaccacgac  | catcatctga | tcagtctagc | 4620 |
| 180 | agctccagtc | agtctcagtc | atcctacatc  | atcaggaatc  | cacagcagag | gcgcatcagc | 4680 |
| 182 | cagtcacagc | ccgttcgggg | cagagatgaa  | gaacaggatg  | atattgtttc | agcagatgtg | 4740 |
| 184 | gaagaggttg | aggtggtgga | gggtgtggct  | ggagaagagg  | atcatcatga | tgaacaggaa | 4800 |
| 186 | gaacacgggg | aagaaaatgc | tgaggcagag  | ggacaacatg  | atgagcatga | tgaagacggg | 4860 |
| 188 | agtgatattg | agctggactt | gttagcagca  | gctgaaacag  | aaagtgatag | tgaagtaaac | 4920 |
| 190 | cacagcaacc | aagataatgc | tagtgggctg  | agaagcgttg  | tactgcagc  | aactgctggt | 4980 |
| 192 | tcagaagcag | gagcaagcag | tggttcctgcc | ttcttttctg  | aagatgattc | tcaatcgaat | 5040 |
| 194 | gactcaagtg | attctgatag | cagtagtagt  | cagagtgcag  | acatagaaca | ggagaccttt | 5100 |
| 196 | atgcttgatg | agccattaga | aagaaccaca  | aatagctccc  | atgccaatgg | tgctgcccac | 5160 |
| 198 | gctccccgtt | caatgcagtg | ggctgtccgc  | aacaccacgc  | atcagcgagc | agccagtaca | 5220 |
| 200 | gccccctcca | gtacatctac | accagcagca  | agttcagcgg  | gtttgattta | tattgatcct | 5280 |
| 202 | tcaaacttac | gccggagtg  | taccatcagt  | acaagtgtct  | cagctgcagc | agctgctttg | 5340 |
| 204 | gaagctagca | acgccagcag | ttacctaaca  | tctgcaagca  | gtttagccag | ggcttacagc | 5400 |
| 206 | attgtcatta | gacaaatctc | ggacttgatg  | ggccttattc  | ctaagtataa | tcacctagta | 5460 |
| 208 | tactctcaga | ttccagcagc | tgtgaaattg  | acttaccacg  | atgcagtaaa | cttacagaac | 5520 |
| 210 | tatgtagaag | aaaagcttat | tcccacttgg  | aactggatgg  | tcagtattat | ggattctact | 5580 |
| 212 | gaagctcaat | tacgtttatg | ttctgcatta  | gcatctgctg  | gtgatcctgg | acatccaaat | 5640 |
| 214 | catcctcttc | acgcttctca | gaattcagcg  | agaagagaga  | ggatgactgc | gcgagaagaa | 5700 |
| 216 | gctagcttac | gaacacttga | aggcagacga  | cgtgccacct  | tgcttagcgc | ccgtcaagga | 5760 |
| 218 | atgatgtctg | cacgaggaga | cttcctaaat  | tatgctctgt  | ctctaatacg | gtctcataat | 5820 |
| 220 | gatgagcatt | ctgatgttct | tccagttttg  | gatgtttgct  | cattgaagca | tgtggcatat | 5880 |
| 222 | gtttttcaag | cacttatata | ctggattaag  | gcaatgaatc  | agcagacaac | attggataca | 5940 |
| 224 | cctcaactag | aacgcaaaag | gacgcgagaa  | ctcttggaac  | tgggtattga | taatgaagat | 6000 |
| 226 | tcagaacatg | aaaatgatga | tgacaccaat  | caaagtgcct  | ctttgaatga | taaggatgat | 6060 |
| 228 | gactctcttc | ctgcagaaac | tggccaaaac  | catccatttt  | tccgacgttc | agactccatg | 6120 |
| 230 | acattccttg | ggtgtatacc | cccaaattcca | tttgaagtgc  | ctctggctga | agccatcccc | 6180 |
| 232 | ttggctgatc | agccacatct | gttgccagcca | aatgctagaa  | aggaggatct | ttttggccgt | 6240 |
| 234 | ccaagtcagg | gtctttattc | ttcatctgcc  | agtagtggga  | aatgtttaat | ggagggtaca | 6300 |
| 236 | gtggatagaa | actgcctaga | ggttcttcca  | acaaaaatgt  | cttatgctgc | caatctgaaa | 6360 |
| 238 | aatgtaatga | acatgcaaaa | cgggcaaaaa  | aaagaagggg  | aagaacagcc | cgtgctgcca | 6420 |
| 240 | gaagaaactg | agagttcaaa | accagggcca  | tctgctcatg  | atcttgctgc | acaattaaaa | 6480 |
| 242 | agtagcttac | tagcagaaat | aggacttact  | gaaagtgaag  | ggccacctct | cacatctttc | 6540 |
| 244 | aggccacagt | gtagctttat | gggaatgggt  | atttcccatg  | atatgctgct | aggacgttgg | 6600 |
| 246 | cgcctttctt | tagaactggt | cggcagggta  | ttcatggaag  | atgttgagc  | agaacctgga | 6660 |
| 248 | tcaatcctaa | ctgaattggg | tggttttgag  | gtaaaagaat  | caaaattccg | cagagaaatg | 6720 |
| 250 | gaaaaactga | gaaaccagca | gtcaagagat  | ttgtcactag  | aggttgatcg | ggatcgagat | 6780 |
| 252 | cttctcatte | agcagactat | gaggcagctt  | aacaatcact  | ttggtcgaag | atgtgctact | 6840 |
| 254 | acaccaatgg | ctgtacacag | agtaaaagtc  | acattttaagg | atgagccagg | agagggcagt | 6900 |
| 256 | ggtgtagcac | gaagttttta | tacagccatt  | gcacaagcat  | ttttatcaaa | tgaaaaattg | 6960 |
| 258 | ccaaatctag | agtgtatcca | aaatgccaac  | aaaggcacc   | acacaagttt | aatgcagaga | 7020 |
| 260 | ttaaggaacc | gaggagagag | agaccgggaa  | agggagagag  | aaagggaaat | gaggaggagt | 7080 |
| 262 | agtggtttgc | gagcaggttc | tgggagggac  | cgggtagag   | actttagaag | acagctttcc | 7140 |
| 264 | atcgacacta | ggccctttag | accagcctct  | gaaggggaatc | ctagcgatga | tcctgagcct | 7200 |
| 266 | ttgccagcac | atcggcaggc | acttggagag  | aggctttatc  | ctcgtgtaca | agcaatgcaa | 7260 |
| 268 | ccagcatttg | caagtaaaat | cactggcatg  | ttgttggaat  | tatccccagc | tcagctgctt | 7320 |

## RAW SEQUENCE LISTING

DATE: 03/22/2005

PATENT APPLICATION: US/10/526,905

TIME: 17:09:57

Input Set : A:\Pto.kd.txt

Output Set: N:\CRF4\03222005\J526905.raw

```

270 ctccttctag caagtgagga ttctctgaga gcaagagtgg atgaggccat ggaactcatt 7380
272 attgcacatg gacgggaaaa tggagctgat agtatcctgg atcttggaatt agtagactcc 7440
274 tcagaaaagg tacagcagga aaaccgaaag cgccatggct ctagtcgaag tgtagtagat 7500
276 atggatttag atgatacaga tgatgggtgat gacaatgccc ctttgtttta ccaacctggg 7560
278 aaaagaggat ttataactcc aaggcctggc aagaacacag aagcaagggt gaattgtttc 7620
280 agaaacattg gcaggattct tggactatgt ctgttacaga atgaactctg tcctatcaca 7680
282 ttgaatagac atgtaattaa agtattgctt ggtagaaaag tcaattggca tgattttgct 7740
284 ttttttgatc ctgtaatgta tgagagtttg cggcaactaa tcctcgctgc tcagagttca 7800
286 gatgctgatg ctgttttctc agcaatggat ttggcatttg caattgacct gtgtaaagaa 7860
288 gaaggtggag gacaggttga actcattcct aatgggtgtaa atataccagt cactccacag 7920
290 aatgtatatg agtatgtgcg gaaatacgca gaacacagaa tgttggtagt tgcagaacag 7980
292 cccttacatg caatgaggaa aggtctacta gatgtgcttc caaaaaattc attagaagat 8040
294 ttaacggcag aagatttttag gcttttggtg aatggctgcg gtgaagtcaa tgtgcaaattg 8100
296 ctgatcagtt ttacctcttt caatgatgaa tcaggagaaa atgctgagaa gcttctgcag 8160
298 ttcaagcgtt ggttctggtc aatagtagag aagatgagca tgacagaacg acaagatctt 8220
300 gtttactttt ggacatcaag cccatcactg ccagccagtg aagaaggatt ccagcctatg 8280
302 ccctcaatca caataagacc accagatgac caacatcttc ctactgcaa tacttgcat 8340
304 tctcgacttt acgtcccact ctattcctct aaacagattc tcaaacagaa attgttactc 8400
306 gccattaaga ccaagaattt tggttttgtg tagagtataa aaagtgtgta ttgctgtgta 8460
308 atattactag caaattttgt agattttttt ccatttgtct ataaaagtt 8509

```

311 &lt;210&gt; SEQ ID NO: 2

312 &lt;211&gt; LENGTH: 2799

313 &lt;212&gt; TYPE: PRT

314 &lt;213&gt; ORGANISM: human EDD protein

316 &lt;400&gt; SEQUENCE: 2

```

318 Met Thr Ser Ile His Phe Val Val His Pro Leu Pro Gly Thr Glu Asp
319 1 5 10 15
322 Gln Leu Asn Asp Arg Leu Arg Glu Val Ser Glu Lys Leu Asn Lys Tyr
323 20 25 30
326 Asn Leu Asn Ser His Pro Pro Leu Asn Val Leu Glu Gln Ala Thr Ile
327 35 40 45
330 Lys Gln Cys Val Val Gly Pro Asn His Ala Ala Phe Leu Leu Glu Asp
331 50 55 60
334 Gly Arg Val Cys Arg Ile Gly Phe Ser Val Gln Pro Asp Arg Leu Glu
335 65 70 75 80
338 Leu Gly Lys Pro Asp Asn Asn Asp Gly Ser Lys Leu Asn Ser Asn Ser
339 85 90 95
342 Gly Ala Gly Arg Thr Ser Arg Pro Gly Arg Thr Ser Asp Ser Pro Trp
343 100 105 110
346 Phe Leu Ser Gly Ser Glu Thr Leu Gly Arg Leu Ala Gly Asn Thr Leu
347 115 120 125
350 Gly Ser Arg Trp Ser Ser Gly Val Gly Gly Ser Gly Gly Gly Ser Ser
351 130 135 140
354 Gly Arg Ser Ser Ala Gly Ala Arg Asp Ser Arg Arg Gln Thr Arg Val
355 145 150 155 160
358 Ile Arg Thr Gly Arg Asp Arg Gly Ser Gly Leu Leu Gly Ser Gln Pro
359 165 170 175
362 Gln Pro Val Ile Pro Ala Ser Val Ile Pro Glu Glu Leu Ile Ser Gln
363 180 185 190

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/526,905

DATE: 03/22/2005

TIME: 17:09:57

Input Set : A:\Pto.kd.txt

Output Set: N:\CRF4\03222005\J526905.raw

```

366 Ala Gln Val Val Leu Gln Gly Lys Ser Arg Ser Val Ile Ile Arg Glu
367      195      200      205
370 Leu Gln Arg Thr Asn Leu Asp Val Asn Leu Ala Val Asn Asn Leu Leu
371      210      215      220
374 Ser Arg Asp Asp Glu Asp Gly Asp Asp Gly Asp Asp Thr Ala Ser Glu
375 225      230      235      240
378 Ser Tyr Leu Pro Gly Glu Asp Leu Met Ser Leu Leu Asp Ala Asp Ile
379      245      250      255
382 His Ser Ala His Pro Ser Val Ile Ile Asp Ala Asp Ala Met Phe Ser
383      260      265      270
386 Glu Asp Ile Ser Tyr Phe Gly Tyr Pro Ser Phe Arg Arg Ser Ser Leu
387      275      280      285
390 Ser Arg Leu Gly Ser Ser Arg Val Leu Leu Leu Pro Leu Glu Arg Asp
391      290      295      300
394 Ser Glu Leu Leu Arg Glu Arg Glu Ser Val Leu Arg Leu Arg Glu Arg
395 305      310      315      320
398 Arg Trp Leu Asp Gly Ala Ser Phe Asp Asn Glu Arg Gly Ser Thr Ser
399      325      330      335
402 Lys Glu Gly Glu Pro Asn Leu Asp Lys Lys Asn Thr Pro Val Gln Ser
403      340      345      350
406 Pro Val Ser Leu Gly Glu Asp Leu Gln Trp Trp Pro Asp Lys Asp Gly
407      355      360      365
410 Thr Lys Phe Ile Cys Ile Gly Ala Leu Tyr Ser Glu Leu Leu Ala Val
411      370      375      380
414 Ser Ser Lys Gly Glu Leu Tyr Gln Trp Lys Trp Ser Glu Ser Glu Pro
415 385      390      395      400
418 Tyr Arg Asn Ala Gln Asn Pro Ser Leu His His Pro Arg Ala Thr Phe
419      405      410      415
422 Leu Gly Leu Thr Asn Glu Lys Ile Val Leu Leu Ser Ala Asn Ser Ile
423      420      425      430
426 Arg Ala Thr Val Ala Thr Glu Asn Asn Lys Val Ala Thr Trp Val Asp
427      435      440      445
430 Glu Thr Leu Ser Ser Val Ala Ser Lys Leu Glu His Thr Ala Gln Thr
431      450      455      460
434 Tyr Ser Glu Leu Gln Gly Glu Arg Ile Val Ser Leu His Cys Cys Ala
435 465      470      475      480
438 Leu Tyr Thr Cys Ala Gln Leu Glu Asn Ser Leu Tyr Trp Trp Gly Val
439      485      490      495
442 Val Pro Phe Ser Gln Arg Lys Lys Met Leu Glu Lys Ala Arg Ala Lys
443      500      505      510
446 Asn Lys Lys Pro Lys Ser Ser Ala Gly Ile Ser Ser Met Pro Asn Ile
447      515      520      525
450 Thr Val Gly Thr Gln Val Cys Leu Arg Asn Asn Pro Leu Tyr His Ala
451      530      535      540
454 Gly Ala Val Ala Phe Ser Ile Ser Ala Gly Ile Pro Lys Val Gly Val
455 545      550      555      560
458 Leu Met Glu Ser Val Trp Asn Met Asn Asp Ser Cys Arg Phe Gln Leu
459      565      570      575
462 Arg Ser Pro Glu Ser Leu Lys Asn Met Glu Lys Ala Ser Lys Thr Thr

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/526,905

DATE: 03/22/2005  
TIME: 17:09:58

Input Set : A:\Pto.kd.txt

Output Set: N:\CRF4\03222005\J526905.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:45; Line(s) 5636

## VERIFICATION SUMMARY

DATE: 03/22/2005

PATENT APPLICATION: US/10/526,905

TIME: 17:09:58

Input Set : A:\Pto.kd.txt

Output Set: N:\CRF4\03222005\J526905.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application No  
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:1060 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:1058  
L:5609 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:  
L:5625 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:  
L:5637 M:259 W: Allowed number of lines exceeded, <213> ORGANISM: